

ABSTRACT of INVENTION

Humpherys, Allan S. 1965

Sinking Float Operated Automatic Irrigation Gates. Patent No. 3,208,225

The invention described in this disclosure is the principle of a sinking float used to control irrigation structures together with four typical self-operating gates which utilize this principle for their operation. One of the gates is an automatic check used to dam or stop the flow of water at a predetermined time in an irrigation ditch. This causes the water level in the ditch to rise and allows water to flow onto the farm field. The other three structures are border inlet gates which automatically control the flow of water from the head ditch into a border or set of furrows. With a series of these gates used in combination with each other and other check gates, a field may be irrigated automatically a portion at a time. The farmer is required only to turn water into the ditch and to turn it off again after the irrigation is completed. After each irrigation the gates automatically reset themselves so as to be ready for the next irrigation.